

What is claimed is:

1. A position calculating method of measuring
reception timings of signals transmitted and received
between a base station and a mobile station and calculating
5 the position of the mobile station by using the reception
timings and position of the base station, comprising the
steps of:

obtaining address information items necessary to
specify incoming signals used for the position calculation;
10 analyzing the address information items included in
the incoming signals; and

selecting incoming signals used for position
calculation in accordance with a result of comparing the
obtained address information items with the address
15 information items analyzed in accordance with the incoming
signals.

2. The position calculating method according to claim
1, wherein

the base station;
20 measures reception timings of signals incoming from
the mobile station,

analyzes the destination information and/or source
information included in the incoming signals as the address
information items, and

selects incoming signals used for position calculation in accordance with a result of comparing the obtained address information items with the destination information and/or source information analyzed in accordance with the incoming signals.

3. The position calculating method according to claim 1, wherein

the base station;

measures reception timings of signals incoming from the mobile station,

accumulates the incoming signals,

analyzes the address information items included in the incoming signals, and

selects the accumulated incoming signals by using the address information items.

4. The position calculating method according to claim 3, wherein

incoming signals are selected by using the order in which the incoming signals are accumulated and the order in which the address information items are analyzed and thereby relating the accumulated incoming signals with the address information items.

5. The position calculating method according to claim 3, wherein

incoming signals are selected by using the reception
timings of the incoming signals and times when the address
information items are analyzed and thereby relating the
accumulated incoming signals with the address information
5 items.

6. The position calculating method according to claim
1, wherein
the mobile station;
measures reception timings of signals incoming from
10 the base station,
accumulates the incoming signals,
analyzes the address information items included in
the incoming signals, and
selects the accumulated incoming signals by using the
15 address information items.

7. The position calculating method according to claim
6, wherein
incoming signals are selected by using the order in
which the incoming signals are accumulated and the order in
20 which the address information items are analyzed and thereby
relating the accumulated incoming signals with the address
information items.

8. The position calculating method according to claim
6, wherein

incoming signals are selected by using reception
timings of the incoming signals and times when the address
information items are analyzed and thereby relating the
accumulated incoming signals with the address information
5 items.

9. The position calculating method according to claim
1, wherein

the address information items use MAC addresses.

10. A receiver for receiving a signal transmitted from
10 a mobile station in order to calculate the position of the
mobile station by using the reception timing and reception
position of the signal transmitted from the mobile station,
comprising:

reception timing measurement unitunit for measuring
15 the reception timing of the signal incoming from the mobile
station;

information obtainment unitunit for obtaining the
address information items necessary to specify incoming
signals used for the position calculation;

20 storage unitunit for storing the incoming signals;
address information analysis unitunit for analyzing
the address information items included in the incoming
signals; and

control unitunit for selecting incoming signals used
25 for position calculation in accordance with a result of

comparing the obtained address information items with the address information items analyzed in accordance with the incoming signals.

11. The receiver according to claim 10, wherein
5 the information analysis unitunit analyzes the destination information and/or source information included in the incoming signals as the address information items, and

the control unitunit selects incoming signals used
10 for position calculation in accordance with a result of comparing the obtained address information items with the destination information and/or source information analyzed in accordance with the incoming signals.

12. The receiver according to claim 10, wherein the
15 receiver includes storage unitunit for storing the incoming signals, and

the control unitunit selects the stored incoming signals by using the analyzed address information items.

13. The receiver according to claim 12, wherein
20 the control unitunit selects incoming signals by using the order in which the incoming signals are stored in the storage unitunit and the order in which the address information items are analyzed and thereby relating the stored incoming signals with the address information items.

25 14. The receiver according to claim 12, wherein

the control unit selects incoming signals by using reception timings of the incoming signals and the time when the address information items are analyzed and relating the stored incoming signals with the address information items.

15. A position calculating apparatus for calculating the position of a mobile station by using reception timings and reception positions of signals transmitted and received between a base station and the mobile station, wherein the address information items necessary to specify incoming signals used for the position calculation are communicated to the base station and/or mobile station.